

AMENDMENTS TO THE CLAIMS

1. (currently amended) An impact resistant glass structure comprising:

a generally planar glass first layer having an outer edge;

a generally planar impact resistant plastic second layer spaced from and substantially parallel with said first layer, said second layer having an outer edge;

a generally planar ~~laminated~~ glass third layer with a laminate film disposed on a surface thereof spaced from and substantially parallel with said first layer and said second layer, said third layer having an outer edge;

a first spacer disposed between said first layer and said second layer adjacent the respective outer edges thereof; and

a second spacer disposed between said second layer and said third layer adjacent the respective outer edges thereof, wherein the outer edge of said first layer, the outer edge of said second layer, and the outer edge of said third layer are adapted to be disposed in a window casing.

2. (currently amended) The structure according to Claim 1, including a first sealant disposed between said ~~first layer, said second layer, and said third layer~~ first layer and said second layer, and between said second layer and said third layer adjacent the respective outer edges thereof.

3. (original) The structure according to Claim 2, wherein the first sealant is a polyisobutylene sealant.

4. (currently amended) The structure according to Claim 2, including a second sealant disposed between ~~said first layer, said second layer, and said third layer~~ at least said first layer and said third layer adjacent the respective outer edges thereof.

5. (original) The structure according to Claim 4 wherein at least one of the first sealant and the second sealant at least partially surround said first spacer and said second spacer.

6. (original) The structure according to Claim 4, wherein the second sealant is a polyurethane sealant.

7. (original) The structure according to Claim 1, wherein a gas filled air space is formed between at least one of said first layer and said second layer, and said second layer and said third layer.

8. (original) The structure according to Claim 1, wherein said first layer is an annealed glass.

9. (original) The structure according to Claim 1, wherein said first layer has a low-E material deposited thereon.

10. (original) The structure according to Claim 1, wherein said second layer is a polycarbonate.

11. (original) The structure according to Claim 1, wherein said second layer is a polymethyl methacrylate.

12. (original) The structure according to Claim 1, wherein said second layer is a polyethylene terephthalate.

13. (original) The structure according to Claim 1, wherein the outer edge of said second layer is spaced inwardly from respective outer edges of said first layer and said third layer.

14. (original) The structure according to Claim 1, wherein said third layer is an annealed glass.

15. (new) The structure according to Claim 2, wherein the first sealant and the second sealant hold said first spacer and said second spacer in place and militate against the separation of said first layer, said second layer, and said third layer.

16. (new) The structure according to Claim 1, wherein the film is disposed on one of an inner surface or an outer surface of said third layer.

17. (new) The structure according to Claim 1, wherein the film is a polyester.

18. (new) An impact resistant glass structure comprising:

a generally planar glass first layer having an outer edge;

a generally planar impact resistant plastic second layer spaced from and substantially parallel with said first layer, said second layer having an outer edge;

a generally planar laminated glass third layer spaced from and substantially parallel with said first layer and said second layer, said third layer having an outer edge;

a first spacer disposed between said first layer and said second layer adjacent the respective outer edges thereof;

a second spacer disposed between said second layer and said third layer adjacent the respective outer edges thereof, wherein the outer edge of said first layer, the outer edge of said second layer, and the outer edge of said third layer are adapted to be disposed in a window casing;

a first sealant disposed between said first layer and said second layer, and between said second layer and said third layer adjacent the respective outer edges thereof; and

a second sealant disposed between at least said first layer and said third layer adjacent the respective outer edges thereof, wherein said first sealant and said second sealant form a vapor barrier between at least one of a space formed between said first layer and said second layer and the atmosphere and a space formed between said second layer and said third layer and the atmosphere.

19. (new) An impact resistant glass structure comprising:

a generally planar glass first layer having an outer edge;

a generally planar impact resistant plastic second layer spaced from and substantially parallel with said first layer, said second layer having an outer edge;

a generally planar glass third layer with a laminate film disposed on a surface thereof spaced from and substantially parallel with said first layer and said second layer, said third layer having an outer edge;

a first spacer disposed between said first layer and said second layer adjacent the respective outer edges thereof; and

a second spacer disposed between said second layer and said third layer adjacent the respective outer edges thereof, wherein the outer edge of said first layer, the outer edge of said second layer, and the outer edge of said third layer are adapted to be disposed in a window casing, wherein a first space is formed between said first layer and said second layer and a second space is formed between said second layer and said third layer, and communication between the first space and the second space is militated against.

20. (new) The structure according to claim 19, including a first sealant disposed between said first layer and said second layer and between said second layer and said third layer adjacent the respective outer edges thereof, and including a second sealant disposed between at least said first layer and said third layer adjacent the respective outer edges thereof.